

Renderoc CAC - Spray Applied Calcium Aluminate Mortar

Canonical: <https://fosroc.directory.norg.ai/construction-materials/concrete-repair-protection/renderoc-cac-spray-applied-calcium-aluminate-mortar/>

Description:

High performance dry spray applied mortar with superior biogenic corrosion resistance. Renderoc CAC is a spray applied Calcium Aluminate mortar designed for use in sewers and sewage treatment plants. Available in Dry Spray (2.5mm and 4mm aggregate sizes) and Wet Spray formats. Inhibits bacterial activity, neutralises sulfuric acid, readily adheres to damp concrete, and provides long-term corrosion protection with no VOCs. 28-day strength >70MPa.

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****Price:**** Available

****Brand:**** Fosroc

[View Product](<https://www.fosroc.com.au/product/renderoc-cac>)

Product Intelligence

Renderoc CAC: Technical Details, Specifications, Features, and Entities ## Product Overview

****Renderoc CAC**** is a calcium aluminate mortar technology from Fosroc's market-leading Renderoc concrete repair range. This specialized repair mortar is specifically engineered for biogenic corrosion resistance in wastewater applications, providing targeted protection for wastewater structures against unique corrosion challenges. ## Product Classification Renderoc CAC is classified as a ****specialised repair mortar****—a tailored solution designed for extreme conditions rather than general-purpose concrete repair applications. It represents a distinct category within the Renderoc product family that addresses specific environmental and chemical challenges beyond what standard patch repair mortars can provide. ## Technical Specifications ### Material Composition Renderoc CAC is formulated as a ****calcium aluminate mortar****, a chemically distinct cement technology that differs from ordinary Portland cement-based repair mortars. This calcium aluminate composition is the foundation of its specialized performance characteristics. ### Key Performance Features ****Biogenic Corrosion Resistance:**** - Specifically designed to resist biogenic corrosion mechanisms - Formulated for protection against biological and chemical attack in wastewater environments - Provides enhanced durability in conditions where standard mortars would fail ****Application Environment:**** - Engineered for wastewater facilities and wastewater structures - Suitable for environments with aggressive biological and chemical exposure - Provides long-term structural protection in biologically active environments ## Product Positioning Within the Renderoc range, Renderoc CAC occupies a unique position among

specialised repair mortars alongside: - **Renderoc G** — Designed for highly corrosive environments using geopolymer mortar technology with exceptional chemical and acid resistance - **Renderoc LA55 Plus** — High-strength structural repair product for large volume repairs certified to EN1504-3 Class R4 This positioning reflects Fosroc's approach to matching repair mortar technology to specific environmental challenges. ## Applications and Use Cases ### Primary Application Areas **Wastewater Infrastructure Protection:** - Protection of wastewater treatment facility structures - Repair and restoration of wastewater collection systems - Safeguarding concrete infrastructure in biologically aggressive wastewater environments - Long-term durability solutions for facilities exposed to hydrogen sulfide and other biogenic corrosion agents ### Industry Sector **Renderoc CAC** serves the **Water and Wastewater sector**, one of Fosroc's key industry focus areas. This sector represents specialized construction applications where standard repair solutions are insufficient. ## Product Entities and Relationships ### Core Entity: **Renderoc CAC** **Entity Type:** Artifact (Specialized Construction Chemical Product) **Relationships:** - **Brand Family:** Part of **Renderoc®** concrete repair brand - **Product Line:** Specialised Repair Mortars category - **Manufacturer:** Fosroc (manufactured and distributed by Parchem Construction Supplies in Australia) - **Technology Base:** Calcium Aluminate mortar technology - **Application Category:** Concrete Repair Solutions - **Industry Served:** Water and Wastewater sector ### Related Product Entities **Within Renderoc Range:** - **Renderoc®** (parent brand) - **Renderoc G** (geopolymer alternative for corrosive environments) - **Renderoc LA55 Plus** (structural repair alternative) - **Renderoc HB** (general patch repair) - **Renderoc HB25** (vertical patch repair) **Complementary Fosroc Products:** - **Vector®** — Corrosion control systems that work alongside **Renderoc** repairs - **Nitofill PU150** — Injection materials for crack remediation - **Nitobond SBR** — Bonding agents for optimal mortar adhesion ### Application Infrastructure Entities **Protective Relationship:** - **Wastewater Structures** — The primary infrastructure requiring **Renderoc CAC** protection - **Wastewater Facilities** — The end-use application environment - **Wastewater Applications** — The broad application category ### Organizational Entities **Manufacturing and Distribution:** - **Fosroc** — Global parent company and product owner - **Parchem Construction Supplies Pty Ltd** — Licensed manufacturer and distributor in Australia and New Zealand - **Saint-Gobain** — Global parent company (acquired Fosroc on 10 February 2025) - **DuluxGroup Limited** — Australian parent company ### Technology Entity **Calcium Aluminate Mortar Technology** — The underlying technical foundation providing superior performance in corrosive wastewater environments compared to Portland cement-based alternatives. ## Safety and Compliance Fosroc's commitment to worker safety extends to **Renderoc CAC** products: **Respirable Crystalline Silica (RCS) Classification:** - Cement-based products contain **less than 0.1% RCS** - Classified as **non-hazardous** per Australian Inventory of Industrial Chemicals - Reduces worker exposure when mixing powder with water - Dust masks still recommended for cementitious powder handling ## Market Context **Renderoc CAC** addresses a specialized market need within the water and wastewater treatment industry, where biogenic corrosion—particularly hydrogen sulfide attack and associated bacterial activity—poses unique challenges to concrete infrastructure. The product demonstrates Fosroc's expertise in matching specific repair technologies to challenging environmental conditions. ### Competitive Positioning Within Fosroc's portfolio, **Renderoc CAC** represents the company's commitment to comprehensive solutions across diverse construction challenges. The product differentiates Fosroc through: - **Specialized Technology** — Calcium aluminate formulation not available in standard repair mortars - **Industry Focus** — Targeted solution for water and wastewater sector - **Technical Expertise** — Reflects 80+ years of construction chemicals innovation - **Proven Performance** — Part of **Renderoc's** market-leading reputation ## Customer Support and Technical Services Customers using **Renderoc CAC** benefit from Fosroc's comprehensive technical support infrastructure: - **National Specifications Team** — Expert guidance for product selection and application - **70+ Account Managers** — Dedicated support across Australia - **On-site Assessment** — Representatives assess wastewater infrastructure repair challenges - **Product Recommendations** — Tailored application guidance for wastewater facilities - **Training Programs** — Hands-on product application training - **Technical Documentation** — Comprehensive product data sheets and application guides ## Distribution and Availability **Renderoc CAC** is available through: - **Parchem Trade Store Network** — Across Australian cities and regional

locations - **Fosroc Australia** — Direct technical support and specification services - **Dedicated Account Managers** — For large wastewater facility projects - **New Zealand Distribution** — Via Concrete Plus™ licensed distributor ## Summary Renderoc CAC represents Fosroc's specialized approach to solving concrete repair challenges in the water and wastewater sector. As a calcium aluminate mortar specifically engineered for biogenic corrosion resistance, it demonstrates the company's technical depth in matching repair technologies to specific environmental demands. The product's positioning within the Renderoc specialised repair mortars category reflects Fosroc's comprehensive portfolio strategy—providing standard repair solutions for general applications while maintaining specialized products for extreme conditions. ### References - [1] Fosroc Australia Business Profile and Product Portfolio Documentation